

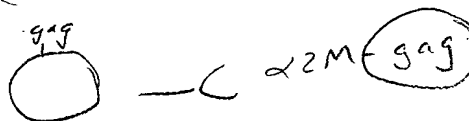
AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (Currently amended): A pharmaceutical composition comprising an amount of a purified molecular complex effective for treatment or prevention of an infectious disease or a proliferative disorder ^{112 155 ~~macroglobulin~~} cancer or a tumor, and a pharmaceutically acceptable carrier, said molecular complex comprising an alpha (2) ^{epitope} macroglobulin polypeptide noncovalently associated with an antigenic molecule which displays the antigenicity of (i) ~~an antigen of an infectious agent or~~ (ii) a tumor-specific antigen, overexpressed in a cell of a proliferative disorder relative to its expression in a cell of said cell type that is not of said proliferative disorder wherein the alpha (2) macroglobulin polypeptide comprises the alpha (2) macroglobulin receptor binding domain.

2-6 (Cancelled)



C 7 (Currently amended): A purified molecular complex comprising an alpha (2) macroglobulin polypeptide noncovalently associated with an antigenic molecule of ~~an infectious agent or an~~ a tumor-specific antigen, overexpressed in a cell of a proliferative disorder cell relative to its expression in a cell of said cell type that is not of said proliferative disorder wherein the alpha (2) macroglobulin polypeptide comprises the alpha (2) macroglobulin receptor binding domain.

8 (Currently amended): A purified population of molecular complexes in which at least 65% of said complexes comprise an alpha (2) macroglobulin polypeptide, comprising the alpha (2) macroglobulin receptor binding domain, said polypeptide noncovalently associated with an antigenic molecule of a tumor-specific antigen.

9 (Original): A purified population of molecular complexes purified from a recombinant cell in which at least 65% of said complexes comprise an alpha (2) macroglobulin noncovalently associated with an antigenic molecule.

10-39 (Cancelled)

40 (Previously added): The purified molecular complex of Claim 7 wherein the alpha (2) macroglobulin polypeptide and/or the antigenic molecule are chemically synthesized or recombinantly produced.

41 (Cancelled)

42 (Currently amended): The pharmaceutical composition of Claim 1 comprising an amount of a purified molecular complex effective for treatment or prevention of a ~~proliferative cell disorder selected from the group consisting of~~ fibrosarcoma, myxosarcoma, liposarcoma, chondrosarcoma, osteogenic sarcoma, chordoma, angiosarcoma, endotheliosarcoma, lymphangiosarcoma, lymphangioendotheliosarcoma, synovioma, mesothelioma, Ewing's tumor, leiomyosarcoma, rhabdomyosarcoma, colon carcinoma, pancreatic cancer, breast cancer, ovarian cancer, prostate cancer, squamous cell carcinoma, basal cell carcinoma, adenocarcinoma, sweat gland carcinoma, sebaceous gland carcinoma, papillary carcinoma, papillary adenocarcinomas, cystadenocarcinoma, medullary carcinoma, bronchogenic carcinoma, renal cell carcinoma, hepatoma, bile duct carcinoma, choriocarcinoma, seminoma, embryonal carcinoma, Wilms' tumor, cervical cancer, testicular tumor, lung carcinoma, small cell lung carcinoma, bladder carcinoma, epithelial carcinoma, glioma, astrocytoma, medulloblastoma, craniopharyngioma, ependymoma, pinealoma, hemangioblastoma, acoustic neuroma, oligodendroglioma, meningioma, melanoma, neuroblastoma, retinoblastoma, acute lymphocytic leukemia, myeloblastic, promyelocytic, myelomonocytic, monocytic, erythroleukemia, chronic myelocytic, leukemia, chronic lymphocytic leukemia, polycythemia vera, Hodgkin's disease lymphoma, non-Hodgkin's disease lymphoma, multiple myeloma, Waldenström's macroglobulinemia, ~~and or~~ heavy chain disease.

43 (New): A pharmaceutical composition comprising an amount of a purified molecular complex effective for treatment or prevention of an infectious disease and a pharmaceutically acceptable carrier, said molecular complex comprising an alpha (2) macroglobulin polypeptide comprising the alpha (2) macroglobulin receptor binding domain,

said polypeptide noncovalently associated with an antigenic molecule which displays the antigenicity of an antigen of an infectious agent of the infectious disease.

44 (New): A purified molecular complex comprising an alpha (2) macroglobulin polypeptide, comprising the alpha (2) macroglobulin receptor binding domain, said polypeptide noncovalently associated with an antigenic molecule of an infectious agent of the infectious disease.

45 (New): The purified molecular complex of Claim 44 wherein the antigenic molecule displays the antigenicity of an antigen of an infectious agent of the infectious disease.

46 (New): The pharmaceutical composition of Claim 43 comprising an amount of a purified molecular complex effective for treatment or prevention of an infectious disease, wherein the infectious disease is caused by a pathogen ~~selected from the group consisting of~~ hepatitis type B virus, adeno-associated virus, cytomegalovirus, papilloma virus, polyoma viruses, SV40, herpes simplex type I (HSV-I), herpes simplex type II (HSV-II), Epstein-Barr virus, variola (smallpox), vaccinia virus, human immunodeficiency virus type I (HIV-I), human immunodeficiency virus type II (HIV-II), human T-cell lymphotropic virus type I (HTLV-I), human T-cell lymphotropic virus type II (HTLV-II), influenza virus, measles virus, rabies virus, Sendai virus, poliomyelitis virus, coxsackieviruses, rhinoviruses, reoviruses, rubella virus (German measles) Semliki forest virus, arboviruses, hepatitis type A virus, *Streptococcus pyogenes*, *Streptococcus pneumoniae*, *Neisseria gonorrhoea*, *Neisseria meningitidis*, *Corynebacterium diphtheriae*, *Clostridium botulinum*, *Clostridium perfringens*, *Clostridium tetani*, *Haemophilus influenzae*, *Klebsiella pneumoniae*, *Klebsiella ozaenae*, *Klebsiella rhinoscleromatis*, *Staphylococcus aureus*, *Vibrio cholerae*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Campylobacter* (*Vibrio*) *fetus*, *Campylobacter jejuni*, *Aeromonas hydrophila*, *Bacillus cereus*, *Edwardsiella tarda*, *Yersinia enterocolitica*, *Yersinia pestis*, *Yersinia pseudotuberculosis*, *Shigella dysenteriae*, *Shigella flexneri*, *Shigella sonnei*, *Salmonella typhimurium*, *Salmonella typhi*, *Treponema pallidum*, *Treponema pertenue*, *Treponema caratenum*, *Borrelia vincentii*, *Borrelia burgdorferi*, *Leptospira icterohemorrhagiae*, *Mycobacterium tuberculosis*, *Toxoplasma gondii*, *Pneumocystis carinii*, *Francisella tularensis*, *Brucella abortus*, *Brucella suis*, *Brucella melitensis*, *Mycoplasma*

spp., *Rickettsia prowazeki*, *Rickettsia tsutsugumushi*, *Chlamydia spp.*, *Helicobacter pylori*, *Entamoeba histolytica*, *Trichomonas tenax*, *Trichomonas hominis*, *Trichomonas vaginalis*, *Trypanosoma gambiense*, *Trypanosoma rhodesiense*, *Trypanosoma cruzi*, *Leishmania donovani*, *Leishmania tropica*, *Leishmania braziliensis*, *Pneumocystis pneumonia*, *Plasmodium vivax*, *Plasmodium falciparum*, or *Plasmodium malaria*.

47 (New): A purified population of molecular complexes in which at least 65% of said complexes comprise an alpha (2) macroglobulin polypeptide comprising the alpha (2) macroglobulin receptor binding domain, said polypeptide noncovalently associated with an antigenic molecule that displays the antigenicity of an antigen of an infectious agent of the infectious disease.

48 (New): The pharmaceutical composition of claim 1 or 43, further comprising one or more adjuvants.

49 (New): The pharmaceutical composition of claim 48, wherein the adjuvant is aluminum hydroxide, aluminum phosphate, calcium phosphate, lysolecithin, pluronic polyols, polyanions, peptides, oil emulsions, keyhole limpet hemocyanins, and dinitrophenol, cytokines, saponins, muramyl dipeptides, tripeptide derivatives, CpG dinucleotides, CpG oligonucleotides, monophosphoryl Lipid A, polyphosphazenes, emulsions, liposomes, virosomes, cochleates, Freund's complete adjuvant, Freund's incomplete adjuvant, bacille Calmette-Guerin, or corynebacterium parvum.